## **Supplementary material**

Annex A. User groups consulted for software development

User groups	Use cases		
1. Patient	Provide feedback		
2. Service provider			
Administrator (includes	Register patient		
nursing leads)	<ul> <li>Publish task for bidding</li> </ul>		
	<ul> <li>Manual intervention</li> </ul>		
	Follow up with patient		
Nurse	Register with programme		
	Bid for task		
	<ul> <li>Coordinate service delivery</li> </ul>		
	Deliver service		
	Document care		
Business office	Receive patient's		
	acknowledgement		
	Generate billing invoice		
	Generate receipt		
Human Resource	Receive nurse's		
	reimbursement form		
	Validate reimbursement		
	Payroll process		

Annex B. Outcome and process measures for Match-A-Nurse programme

	and process measur ple Aim		tch-A-Nurse Program	nme	
,		Outcome			
Dimension	Outcome	measured	Process measures	Data source	
	measures	(in detail)			
Patient experience of care	Patient surveys     i.e. likelihood     to recommend	Patient survey i.e. likelihood to recommend     Number of patients who cancelled the service/ withdrew from the programme     Number of 'no shows' (nurses)     Number of 'no shows' (patients)     Number of eventful documentation     Individual documentation completion rate     Individual patient cancellation rate	Satisfaction rating     Patient feedback     Completion rate	Patient satisfaction survey	
Per capita cost of healthcare	Total cost per member of the population per month (cost effectiveness)	Direct cost of Match-A-Nurse service     Savings – in comparison with existing services in the community (collaborate with HNF)     Decrease in A&E admissions     Average travel distance     Number of patients with valid means test	<ul> <li>HNF</li> <li>e-Hint</li> <li>Web portal</li> </ul>		
Population health	<ul> <li>Health outcome</li> <li>Service completion rate</li> <li>Job quality</li> </ul>	Number of completed visits     Complete documentation	<ul> <li>Number of tasks with poor matching</li> <li>Number of tasks with no</li> </ul>	Web portal     Mobile     application	

Quadruple Aim		Match-A-Nurse Programme		
Dimension	Outcome measures	Outcome measured (in detail)	Process measures	Data source
	(eventful/ uneventful)	rate	bids  Number of tasks requiring manual intervention	
Work life of health care providers i.e. nurses	<ul><li>Nurses' satisfaction</li><li>Why do nurses sign up? (qualitative)</li></ul>	Provider     satisfaction     survey	<ul> <li>Number of enrolled nurses interviewed</li> <li>Satisfaction rating</li> </ul>	<ul> <li>Provider satisfaction survey</li> </ul>
Home nursing capacity	Number of nurses who signed up     Number of nurses who bid for the task     Number of tasks available     Capacity of nurses provided by each institution	Number of patients/ caregivers who signed up for the service     Number of nurses recruited     Average duration required to match nurses to patients     Individual bid rate     Nurse's cancellation rate     Nurse's Performance	Average	<ul> <li>Web portal</li> <li>Mobile application</li> </ul>
Others	Usability of web portal/ mobile application	Application satisfaction rating	6	<ul><li>Web portal</li><li>Mobile application</li></ul>